

STEVAL-ISA062V1

Bill of material

BOM for dual output, 5 V at 0.5 A and 12 V at 0.25 A

Item	Qty	Ref.	Part	Volt/Watt	description	CAT #
1	1	BR1	BRIDGE			
2	1	C1	0.1 μ			P4610
3	1	C3	22 μ F	400 V	105C	CompoStar LTech TYD2DM220J200
4	1	C4	22 μ F	25 V	GP	Panasonic EET-HC2G561DA
5	1	C6	3.3 nF		SM 0805	
6	1	C7	33 nF		SM 0805	
7	1	C8	2.2 nF		Y1	Panasonic ECK-ANA222ME
8	1	C9	470 μ F	25 V	Low ESR	Panasonic EEU-FC1E471
9	1	C10	100 μ F	25 V	GP	Panasonic EEU-FC1E101S
10	1	C11	33 nF	50 V	SM 0805	
11	1	C12	0.001 μ F	50 V	SM 0805	
12	1	C13	470 μ F	25 V		Panasonic EEU-FC1E471
13	1	D1	1N4148	100 V	SOD 123	Diodes Inc 1N4148W-7
14	1	D2	1N4148	100 V	TH	1N4148
15	1	D4	STPS1L40U			STMicroelectronics
16	1	D6	STTH102A			STMicroelectronics
17	1	D7	PKC-136			STMicroelectronics
18	1	F1	500 mA			Wickmann USA Inc 37204000411
19	1	J1	CON2		2 position	Phoenix contact 1729018
20	1	J3	JUMPER		3 pins	
21	1	J4	Phoenix 3 pin		3 position	Phoenix contact 1729021
22	1	L1	470 μ H			
23	1	L2	1 μ H			Coil Craft ME3220-102ML or Ice Components LO32-1R0-RM
24	1	OPTO1	H11A817A			H11A817A
25	1	R0	6.8 Ω		1/4 W carbon comp	OD68GJ
26	1	R1	10 Ω	5%	1/4 W	
27	1	R2	1600 k Ω		SM 0805	
28	1	R3	47 k Ω		SM 0805	
29	1	R4	1600 k Ω		SM 0805	

BOM for dual output, 5 V at 0.5 A and 12 V at 0.25 A (continued)

Item	Qty	Ref.	Part	Volt/Watt	description	CAT #
30	1	R5	22 kΩ		SM 0805	
31	1	R6	1 kΩ		SM 0805	
32	1	R8	2.49 kΩ	1%	SM 0805	
33	1	R9	2.49 kΩ	1%	SM 0805	
34	1	R10	82 kΩ		SM 0805	
35	1	R12	8.2 kΩ		SM 0805	
36	1	R13	220 Ω		SM 0805	
37	1	R14	180 kΩ		SM 0805	
38	1	T1	CSM16VT-070			Cramer Coil VSM16VT-070
39	1	U1	VIPer17HN			STMicroelectronics
40	1	U2	TS2431			STMicroelectronics
41	1	W1	Val		0805 jumper	
42	1	P3	Shorting strap			Sullins STC02SYAN